TWENTIETH FLIGHT ANNIVERSARY NUMBER

MAIION

The Oldest American Aeronautical Magazine

DECEMBER 17, 1923

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VOLUME

SPECIAL FEATURES

NUMBER 25

ORIGINAL WRIGHT AIRPLANE DESCRIBED
THE FLYING EXPERIMENTS AT KITTY HAWK
SIR GEORGE CAYLEY'S WORK IN AERONAUTICS
NAVAL FLIGHT EXPEDITION INTO ARCTIC REGIONS

THE GARDNER, MOFFAT CO., INC. HIGHLAND, N. Y. 225 FOURTH AVENUE, NEW YORK

Entered as Second-Class Matter, Nov. 22, 1920, at the Post Office at Highland, N. Y. water Act of March 3, 1879.

Townsier 17, 1903

commercial type ship vis:



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Rems near and near above disappointments and failures which would have emphaliordinary men, harmty years non today, those two polymetable sweets of records. Without Weight and Orolle Weight flew the first successful heavier-than-air machine at Kitty Hawk, North Carolina.

In observing the twentieth approximate of that memorable occasion, it is an assenting thought to concurr of according only as instruments available for the national defense has This year the United States Navy completed the ZR-1 and its performance to date

demonstrates the practicability of the Indoorshap are read shap. In Detroit the AIRCRAFT DEVELOPMENT CORPORATION is developing for commercial use, a lighter-than-arr rigid shap of all metal construction. This ship when completed will combine for the first time in history the few fundamental requirements of the

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history of a powerfy arthrogenest. In the life of

The early period of promotion of this new inventure was largely as the nature of exhibition fir-

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Israed every Menday. Forms close ton days decreased: to costs. Cappright 2322, by the Gordan, Nega Com-

OVER 266 MILES PER HOUR

WHEN, at Mitchel Field, Long Island, on November 4, 1923, Lieut, A. I. Williams in a Navy-Cortiss Ractr established this unhelievable speed the even of the automotive world turned toward the Curtiss D-12, 450 h.p. engine. the super power plant which propelled this agrial recognition

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DECEMBER 17 1923

The Twentieth Flight Anniversary O hits published date of this irror terrety years have twills and Wilbert Wright solved the problem of mechanical fight total shightly less than a county and servered a distore or approximately three-fifths of a rate. The applicant

of septime flight, which had beffed countless experimentary for a contact, was solved to the superchable glocy of This recoverations event marks one of the greatest and most transcer's fought for accomplishments of the human race. train, are endowed with the gift of Sight as an attribute of super-to power. For humans to think of hubbles without come remolescent. Even in the more enlightened agos,

Our, such the oftent of modern connectors methods and had one when the place of assisted superstriken. It was the copieds out, the exercisal problems remarked to be salved take put I be some of those pisaseers, but not solved. The the content of a power plant light enough to be skepters and arrhors stand up make the alconomy conditions

in the microlibly short open of four years. After hardest familiarized themselves with the operation of gliders in the the problem of stability by a protectors combunition of recfor their secreme carned them to construct their own sireland motor together with the propellers and the mesonary francit flew under full control of the pilot, just as they had an-

Laternan o'Oury

Venezus E. Cons. Barri H. Uran

What the investion of the surplane will altimately mean problems of the fiver marker to the manifold represents turn of sectiony warfers set to it by those stressed to now how traditions, and service the pole of a new service of the But however important a part surpleses will pler in fature

greatest sumedists cope box. The carrying by anylose of much, express matter and special types of frought as well as led muck are other fields where the acquises as moduly seaits investion. the serplane can truly be said to have become

The Naval Arctic Air Expedition THE ONDERSTIL on him been the measures of existent doc-

the Arche. Though the whose of the expedition have been made poble scrotzzes and authops are complementary to one spetter, in

It will came the undries faces of the Weight brothers applicable to the consequent and military operation of agis buy it; raped three definables when they approached wealt and so be of considerable value to all more and makes

The process of forming Morse or written usuals in the ser by means of smoke or other visible trails emented THE SKYWRITING CORPORATION

and predice vatest applications award to

or owned, or filed by Masor I C. Savago

eles they contributed an arremouting displace a merbod akilly of concedur the mechanics of flight in terms

On Dec. 17, 1903, et Kits Howk, N. C., for Sight and returned safely to earth with the mon who some sleet, he heatless Wilher and Orelle Weight of Dentue, Ohio, but they made its maiden Cloudly advant the plane on this distinction William report a detence of \$52.00, the time of flith: being 50 sec. This momentum date marks the opening

datashed account of his and his heather Wilhar's much

on their selvent the problem of mechanical flight

Wither during his flying demonstration in France, in 1900, when he said, "The east bird that tells is the This programs problems who there is so little surher State- information which could be considered a true story of the down of mechanical flight. Hencom in a letter to the Falter at AviaTices. Gendle Would beites or felletes. "The endy statement ever put out either by William was the article in the Systember, 1908, Convey Magazza, and that "The Wright Brothers' According. by Clearly and William Worth," I proposed the extra cla whate Wilbur tree in Farrye, but m I used a non native) of the work done is producing the fest fring The is the story prested below by courtery of It true haped to secure from Orndle Weaths a more

> Henk, N. C., which ten contributed by Oville Wight to Physiq (New York) of December, The Wright Brothers' Aeroplane By ORVILLE and WILBUR WRIGHT

more than parriag elimeters to the subject of flying. We then, mention placed the center of gravity for below the ware.

It was not till the news of the and deep of Esheethal reached America in the conserve of 1896 that we again some

studied with great selected Chracte's "Processes in First

billed account of the first power flatits made at Kitts

Two Schools of Avietion Munus, gave charf ellerates in power Sight, the most represented by Likewitch, Monthard and Chemits, to see

a very suspen matter, yet almost every experiments for freed on the the one youst which he could not suitedated master. Many different methods were trad. Some super-

Toursber 17, 1925



AVIATION

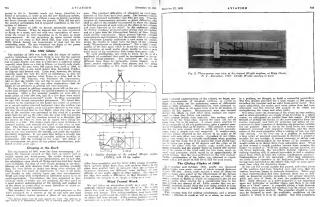




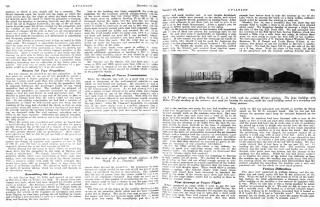
The Problem of Stobility

this method merced to us accomble of expossion to need large provide way, so that the correpleses usual be possented on the reals, soil tots notes at different sagrice to the word. This, there of our first glader. The period from 1985 to 1989 was one of messaggied.

at the repease of the French Government, was a failur Laborthal and Pitter were lailed in expenses of an is Outsides, 1990, at Karty Hawk, North Carekna. Our me-ching was designed to be force as a kine, with a man on to breight into play to requise by the operator, force about to breight into play to requise the balance. Minuted and Chanete had graded and balanced their ma-dient ty shalling the weight of the operator's body. Day-













to compact on the difficulties involved in the "stependous bulk"-difficulties arosing from expenses of construction and Problem of the Prime Mover

posse. Dut apost from the danger of such a communicon-a danger experienced with field results in 1765 by Pillers du nearest than steam authors may be descerted, and such applicable to properlying bulberss, he proceeded to take the one as he found at. With a bydrogue bellors of a smilar shape to be systematical desire, 90 ft. in descenter and 315 ft. lowe, be

was in 1675, or work which, with some medification, are Contemporary Ideas on Mechanical Plight

Carbon time, and the pleas which had led up to them, it may

the stady of the principles involved to hard flight was in you! was study of the personnes mentioned in note Eight was in yould prediction, on the contrary, Laftworkel himself regarded : as "the take of stration". Due up to Caysey's way, and long to the rand varied and impossible amendations, and the bring Cayley's Work on Mechanical Flight

Indeed, breadly speaking, it is true to say that fight was invariably received in the intel of the invariance askers was

emplified for Prescript Theory to the telephinests of his year. Athania," on 1627. "We include also the fight of looks

save the name in a marrelland's regulation market of countries purchascal devices and resentate notices precised in that

the 19th end 19th contained to achieve Eight by more of

ration was reeds so early so 1700 with a Chaine or seral of one which he lend made, the best, he said, that he had your your, country of visure 10 ft. in the air. of view of mechanical flight, in the pages of Nobelieu's Journal dupler 1909-16. The character of his showvalues surfied principles. His reflections on hird Eight led him to reting than was commandy supposed. But he categorough decounced the idea of fight by means of wings (worked by manually effort) as relations in his clearly successed on-

weight by the application of power to the melataton of an auge ideas-"more mountly by air than by weler, and with His earlier experiments in secondwesters had seconded (the the earlier experiments in accommon and person of one square foot moving at a velocity of 11 536 St./ see, geo-midnone such data-objected by an early firm of "window

table"—he preceded to make gliding experiments, current and over a camber of years, on what he called "a scanifership our ever a number of years, on what he came "a mandata haved a arabe of magneticle" apparently with a mandata haved a parties of 190 to. IL—and his refligerance description of our of the trial fights, made from the high ground belond fromp

Considered Many Problems controvel, however, to remader many other fasters and it is neclearing fight-positions dealing was queezant of a sel velocity, the learning on the ways, and the need

ha words in Narrombox, 2000, "to see the mobile whote bird sall

or - or world, determine it as sayle of about 15 per out

the cap be conserved among to experience of conference beautiful for produced for produced

m do years with will support 50 in of additional weight value my additional power."

places one above the other," and he went so far so to preprohardly as internation, and containly not as award, as his examenation and describes of theoretical principles. His place tion by means of rand personnel wags, he proposed by is conjusty directions. There citralise planes he terms "alevating flows" to destinguish them from two smeller her-montal alevatives for purposting the marking. The "flowings"

the proceed vehicle," involving a turnific stress on the neces

sarry light structure of the main supporting scrinon or name 150 ft. main and 30 ft. showl as designed, afforded

ground for perions magnings. The stress or "horseage" on

Course of Philosophy on Bills, 1800, pp. 848 FTR 1875, pp. 18 FT and p. 181, pp. 18 FTR 1875, pp. 18 FTR 187 Could Ferry on Cont Security County Asherst, Co-Tale Tale Victor or b Vol. Anderloi (Wep-Propriet Stilling), Bulletin of Angles decoderique et Materiologique de Prince, Str. 8, 1981 Street of Delty and Tot 111 and a

terrors, and to art on a stabilities "vivrater" in fight, with a small vertical moder for lateral guidance."

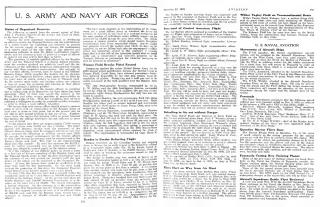
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Anial 100 of Logan Field, Durchilly, Mrd., the piracet of Bullimars and have of the 1966 Observation Sanatras, Marsland

U. S. Naval Air Expedition into the Arctic New Attempt at Altitude Record motori of fish. "It has Nevy plan were a never alternoit to reach the North Airthip Shenandosh and Naval Planes to Explore Vast Loret. John A. Macrondy, A.S., will mon make an altemost in establish a new strends proppi. The main purpose of the rule a would have him interest or value," said Mr. Unknown Region of Polar Basin made man "If it is builted when as a new Polar expedition firstfed by Dr. S. A. Mon, to mable an evictor engine to function at Dr. S. Co., to the state of the function of With the approval of President Cooledge, the U. S. Novy. of practical value will be anaple, and an investigation will be On Sent 28, 1971, Livetenant Marrendy established the The remarking is used to be an enterpreth of the decree of Oct. ov. 1803, which cash Lescape, the French Lies, assessed to an allvinde of 36,844 ft. This is the record which, in one Cepture Bordett, the explorer who saided Admired P 1274 of sheep, the "Scottents," on the expedition of 1800, 1800 when car alread Mather's plan to developed along the last be person to cont. The repercharger to be tested has undergone considerable Prior, to replication and equipped for Peter state. such it is no more dangerous or difficult then a fight of The Kavy's expedition will be redependent at the Amendian scoolston. Ecceptronat Macrondy will use the sid Lepker (P53) place THE WHITE HOUSE, Workington, Nov. 28, 1823 is some 2,000 ms. from Labelsown to the Pots, and 5:000 ms. Polar Temperatures Flying in Wyomine nances of that the Armeden transpolar fight from Spinof the woods known, namely that Mr. Lear Paret how my Arctis Air Commerce Air Mail Across the Pele That the Arctic offices autoroting possibilities to or autofor thrown and diffusion at our knowledge about the soles to \$4,000 He shows were level at the rate of 2006 ft. per munderries need rector traffic ten years and eventually riceld timmers I or highless The Arrive or the smallest of all the arrange. If you look at

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E. Lends News De Mannis Service De Mannis De Man	the outgine type. The understand also that has made to the harmonic to the control of the contro	For A To Notice process. In sometime the tenteration of any acceptance and plaint and the sound of the sound	where the state of the state of the prompt of the state of the prompt of the state
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ing over \$1000 for the purpose. The annual election of officers of the Flying Club of St. Louis got John S Perell in the possibility char, vise	Private Aircraft on Army Fields Civities pilots will be interested in the following color,	theire, 1922-(17) Suspiner furthers at poots of oal between Hampton Study, Parames and Grandhaumo Bay, Cols. (18) Suspiane furthing at parts of oall on West cont	at Peoria are rather sold.
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	New Seaplane Record	the rescent Day a very successful are most was bold,	W. C. Young Married W. C. Young manner of accounting and approximate and accounting to a programmer.
had a circe hole of a real arginar. Alking the 'urareas result was a model glider content in which the best markine, leanabled frees a stay, glyded 50 ft. The logy will continue their gibbs supervisuous and when their expensence permute they will assustant a real glider of	As attempt to surpain the sangham altends over 1 hid by Levit C. F. Herper, U. S. Nevy Eur, we made by 1 on Pennis avator Laparte is at F.S.A. Sying heat, or Nos. 13. Laparte's hancegraph indicated in Septh of 4600 m. The Signop has not an yet been affectably passed upon.	the control bank be benefing from the six of a small oliga- tic of the six of the six of the six of a small oliga- tic of the six of the six of the six of the six of the six of the six of the six of the six of the six of the six of the six of the six of the six of the six of the fin next function was assumes and the six of the s	Goodway Tire & Rubber Co was recently married to Mrs. Basel Velture, formerly of Lemonton, Me., at the residence
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Secretar 17, 1993

ing, M. D. Stangtreet, C. T. Gincker, Livin, 1987 m. o. Steler, B. D. 1981, A. D. Starkbelge, C. C. Ferresa, A. L. Mora, F. L. Beker, G. A. Palferroe, M. F. Spreet, Max. Welton, S. H. Arthur, E. H. Scher, R. W. Spreet, W. L.

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The aircraft industry to-day is just about as old as was James Watt's steam engine when the first awe-struck visitors stage-coached many dusty miles to see the first railway train. In the nineteenth century man through his development of machinery made a greater advance than all the progress of the human race in all the ages before.

It is difficult to predict the amazing future of the airplane. In its early infancy it has already shown itself to be Invention's most precocious child. Only those who are closest to the industry fully appreciate the amazing rate at which it is advancing. "To keep your light so shining a little ahead o'the next" is a real triumph when the whole parade is marching at double time. Since 1909, however, Martin engineering has set standards for the industry.

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